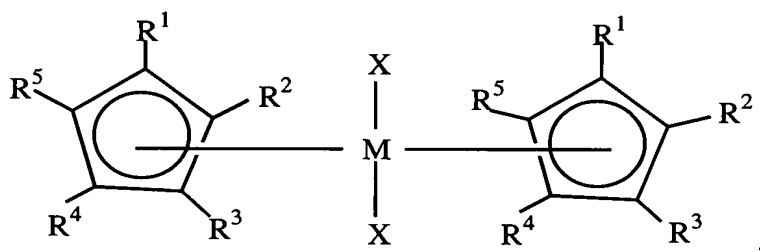


OPTO-ELECTROACTIVE DEVICE COMPRISING A METALLOCENE AND METHOD

ABSTRACT OF THE DISCLOSURE

[0032] Disclosed is an opto-electroactive device comprising a metallocene of the formula



wherein M is zirconium or hafnium; X is halogen and R^1 - R^5 are each independently hydrogen, aryl, alkyl, halogen or $-\text{Si}(\text{R}^6)_3$; or wherein at least two adjacent R substituents on at least one ring are joined to form a fused ring, which may be unsubstituted or substituted with aryl, alkyl, halogen or $-\text{Si}(\text{R}^6)_3$; or wherein the R^1 substituents on each ring are joined to link the rings in an ansa bridge, and wherein R^6 is an alkyl group, a substituted alkyl group, an aryl group or a substituted aryl group. Also disclosed is a method for making an opto-electroactive device comprising a metallocene.